AMENDMENTS TO THE CLAIMS:

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This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (original) A method for extracting acetaldehyde and determining its content, particularly in PET samples in the form either of a whole preform or of PET pieces or granules, comprising:

locating the PET sample in a desorption cell, scavenging said desorption cell with air, incubating and heating the PET sample placed in the cell, pressurizing the cell, charging a loop, and transferring the loop content to a gas chromatography column and from there to a detector.

- 2. (original) A method as claimed in claim 1, wherein cell scavenging is effected with air.
- 3. (currently amended) A method as claimed in the preceding claims claim 2, wherein the loop content is transferred by a transport gas such as hydrogen.
- 4. (currently amended) A method as claimed in the preceding claims claim 3, wherein the gas chromatography column is optimized for acetaldehyde separation.
- 5. (currently amended) A method as claimed in the preceding claims claim 4, wherein after an analysis, cell scavenging with air automatically commences after removing the PET sample.

- 6. (currently amended) An analyzer for extracting acetaldehyde and automatically determining its content, particularly in PET samples, characterised by comprising, in combination:
- [[-]]a desorption cell [[(1)]] into which said sample
 is inserted;

means for scavenging said desorption cell with air;
means for incubating and heating the PET sample placed
in the cell;

means for pressurizing the cell;

- [[-]] an analyzer-system comprising a separation column
 [[(16)]] optimized for acetaldehyde separation;
- [[-]] a loop [[(9)]] connectable to said cell [[(1)]] to receive an aeriform acetaldehyde sample, which is then transmitted to the optimized separation column [[(16)]] and then to a detector [[(17)]], a complex of controlled valvemeans being included for manipulating the fluids flowing within the analyzer.
- 7. (currently amended) An analyzer as claimed in claim 6, wherein the complex of valve means is controlled in accordance with a program by a data processing and control system [[(19)]].
- 8. (currently amended) An analyzer as claimed in $\frac{6}{2}$ and $\frac{7}{2}$ wherein means [[(19)]] are provided for measuring the partial pressure during the desorption step.
- 9. (currently amended) An analyzer as claimed in the preceding claim 8, wherein the cell [[(1)]] is provided with a perforable baffle [[(60)]] for the injection thereinto of a mixture of known acetaldehyde concentration, for calibration purposes.

- 10. (currently amended) An analyzer as claimed in claim 8, wherein for calibration purposes the cell [[(1)]] can be connected [[(at 24)]] to a cylinder or similar source supplying a nitrogen/acetaldehyde mixture of known acetaldehyde concentration.
- 11. (currently amended) An analyzer as claimed in claim 6, wherein the cell [[(1)]] is provided with electrical controlled heating means [[(32)]].